EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

99P3438

PUBLICATION NUMBER : 10151324
PUBLICATION DATE : 09-06-98

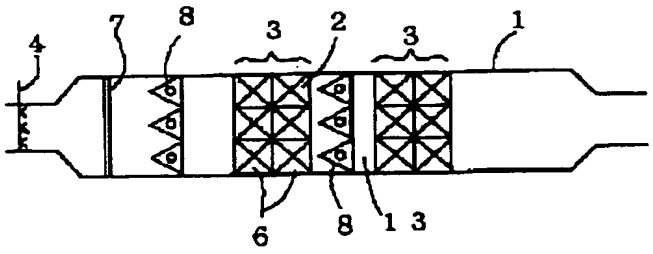
APPLICATION DATE : 22-11-96
APPLICATION NUMBER : 08312071

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INT.CL. : B01D 53/94 B01D 53/86 B01J 35/02

TITLE : FLUE GAS DENITRATOR



ABSTRACT : PROBLEM TO BE SOLVED: To suppress the lowering of denitration performance by a denitration catalyst bed due to the nonuniformity of the gaseous NH_3 distribution in a waste gas treating line.

SOLUTION: A denitration catalyst bed 3 consisting of a parallel-flow catalyst unit 6 obtained by laminating a honeycomb or plate catalyst element or a plurality of the catalyst blocks 2 obtained by laminating a plurality of the catalyst units 6 are arranged on the downstream side of an ammonia injection part 4 in a waste gas duct 1. At least two denitration catalyst beds 3 are set in the duct 1, a gap 13 is formed between the denitration catalyst beds 3, and a mixer 8 for mixing the waste gas and ammonia is set in the gap 13. The waste gas and NH_3 are mixed at the inlets of the respective catalyst beds by the mixer 8 set in the gap 13, the unbalance of distribution of the molar ratio of NH_3 to NO_x is reduced, and the denitration performance is enhanced.

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EPODOC: < JP 410151324A A1 >